



COPY OF PAPERS  
ORIGINALLY FILED

2681 #2  
537.2

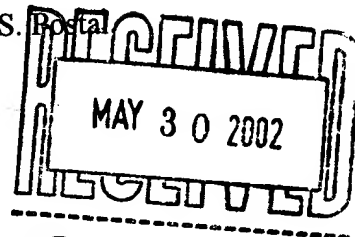
# CERTIFICATE OF MAILING

I hereby certify that the below listed items are being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

**Assistant Commissioner for Patents**

**Box: IDS**

**Washington, D.C. 20231**



on 5-08-02

Marianne Boland  
Marianne Boland

RECEIVED  
MAY 23 2002  
Technology Center 2600

In re application of: **Glas, et al.**

Art Unit: 2681

U.S. Serial Number: 09/989,605

Examiner: To Be Assigned

Filing Date: November 20, 2001

Our Reference Number: 240102-1020

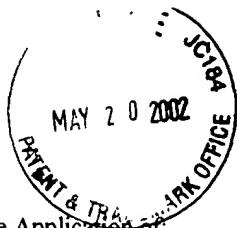
Title: SYSTEM AND METHOD FOR AN IF-SAMPLING TRANSCEIVER

The following is a list of documents enclosed:

Return Postcard  
Information Disclosure Statement  
Form PTO-1449  
Prior Cited Art (1-4)

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

Cert-Mailing-Reg



COPY OF PAPER  
ORIGINALLY FILED

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Glas, et al.

Group Art Unit: 2681

Serial No.: 09/989,605

Examiner: To Be Assigned

Filed: November 20, 2001

Docket No.: 240102-1020

For: **SYSTEM AND METHOD FOR AN IF-SAMPLING TRANSCEIVER**

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

RECEIVED  
MAY 23 2002  
Technology Center 2600

Sir:

This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:

- ☒ under 37 CFR 1.97(b), or  
(within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement Under 37 C.F.R. 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before the final office action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 petition fee set forth in 37 CFR 1.17(p).  
(Filed after final office action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Enclosed is a check in the amount of \$-0-. Please charge \$-0- to deposit account . At any time during the pendency of this application, please charge any fees required to Deposit Account 20-0778 pursuant to 37 CFR 1.25. The Commissioner is hereby requested to credit any overpayment to Deposit Account No. 20-0778.

- ☒ Applicant(s) submit herewith *Form PTO 1449A - Information Disclosure Statement by Applicant* together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.
- ☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

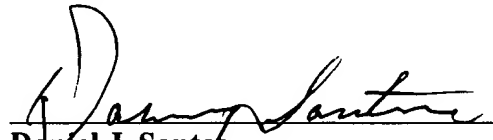
This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

**THOMAS, KAYDEN, HORSTEMEYER  
& RISLEY, L.L.P.**

By:

  
**Daniel J. Santos**

100 Galleria Parkway, Suite 1750  
Atlanta, Georgia 30339-5948  
770-933-9500

COPY OF PAPERS  
ORIGINALLY FILED

Page 1 of 1

Form PTO-1449

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Attorney Docket No.  
240102-1020Serial No.  
09/989,605Applicant  
Glas, et al.Filing Date  
November 20, 2001Group  
2681

## U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

RECEIVED

MAY 23 2002

Technology Center 2600

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

1	"Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications High-speed Physical Layer in the 5 GHz Band", Sponsor: LAN/MAN Standards Committee of the IEEE Computer Society, IEEE Std 802.11a-1999.
2	"Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Physical (PHY) layer", ETSI, ETSI TS 101 475 V1.2.2. (2001-02).
3	"The Synthesis and Application of Polyphase Filters With Sequence Asymmetric Properties", Michael John Gingell, 1975.
4	"Integrated Wireless Transceiver Design with Emphasis on IF Sampling", Mihai Banu, Bell Laboratories, Lucent Technologies; Carlo Samori, Politecnico di Milano, Italy; Jack Glas, Gell Laboratories, Lucent Technologies; John Khoury, Columbia University, New York.

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

EXAMINER'S SIGNATURE:

DATE CONSIDERED:

Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE